

Part I: Facility Information

Part I provides general facility information for the Central Energy Plant (CEP), as listed below in the Table of Contents. Sections 2, 3, 4, 5, 6 and 7 are also included in a database format, located on the diskettes in Section 13.

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1. General Facility and System Description

The Central Energy Plant (CEP) provides the major utility functions of cooling, heating, emergency power, and waste handling for the Acute Care Facility (ACF) at the Naval Medical Center in Portsmouth, Virginia. The CEP is a stand-alone structure located off the southwest corner of the ACF. The CEP was constructed around existing Building 20, which is the boiler plant for the existing hospital. The existing boiler plant will become part of the CEP. The following lists the major information for the CEP:

Dimensions	275'L x 135'W x 65'H
First Floor Area	21,200 ft ²
Second Floor (Mezzanine) Area	4,675 ft ²
Interstitial Area	840 ft ²
Third Floor Area	1,600 ft ²
Building Foundation Type	To be field verified

Major CEP Systems:

- ! The Steam System provides steam for the Acute Care Facility (ACF) and various surrounding buildings at the Naval Medical Center. The steam system consists of six (6) dual-fuel boilers. Four (4) boilers are existing from Building 20 while two (2) boilers have been added to the system. The total capacity of the steam system is approximately 190,000 pounds of steam per hour. The steam system is supported by a Condensate System, a Boiler Blowdown System and a Feedwater System consisting of a new deaerator heater and four new boiler feed pumps.
- ! The Chilled Water System in the CEP is dedicated to providing chilled water for air handling units (AHUs) in the ACF. The chilled water system consists of three (3) centrifugal chillers with a cooling capacity of 1200 tons each. The chilled water system is supported by the Water Treatment System and the Cooling Tower System, which contains three (3) separate cooling towers.
- ! The Domestic Hot Water System primarily supplies the Acute Care Facility with hot water for all domestic and personal uses. The

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domestic hot water system consists of three (3) water heaters and four (4) tempering valves. The domestic hot water system also provides hot water for use within the CEP such as restrooms, showers and the cart washers.

- ! The Emergency Power System generates emergency power for the vital components within the Acute Care Facility. The diesel generator system uses six (6) diesel powered generators producing 1000 KW each. The diesel generators operates in conjunction with the uninterruptible power supply (UPS) system which supports all emergency power loads until the diesel generators can be brought up to capacity. Fuel for the diesel generators is stored in a buried fuel oil tank with each generator having its own local day tank.
- ! The Electrical System located in the CEP supports all activity within the CEP. The CEP does not supply electrical power to the ACF which has a separate substation.

Special CEP Building Features:

- ! The Incinerator System is used to burn hazardous medical refuse. The unit is located on the north end of the building.
- ! The loading dock is also located on the north end of the building. The loading dock is equipped with loading dock levelers for safer and easier loading and unloading of equipment and supplies.
- ! The CEP is serviced by three (3) elevators. All three elevators are hydraulic and are protected by cathodic protection systems. Two (2) of these elevators are located on the north end of the building which is part of the new addition to the CEP. The third elevator is located in the existing portion of the CEP.
- ! The control room CEP007 is a separate room located in the center of the CEP next to the diesel generator room. The control panels within this room can operate all vital systems and all major problems can be observed in this room first.

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- ! The cartwasher is located in the north end of the CEP. The function of the cartwasher is to clean and sterilize the carts that are used throughout the ACF for general medical transportation.

2. Floor and Site Plan Information

This section consists of two parts: Table I-1 listing the CEP floor plan information and a site plan of the CEP. The floor plan information includes room numbers, descriptions and areas. The site plan is a color-coded reproduction of the existing key plan from the design drawings. Information from Table I-1 is included in the Part I database. The Table is arranged alphanumerically by room number.

Table I-1: CEP Floor Plan Information		
Room Number	Description	Area (ft²)
CEP001	Chiller Room	4860
CEP002	Treated Water System	470
CEP003	Existing Condensate Tank & Pump Room	280
CEP004	Switchgear Room	2185
CEP005	Tank Room	700
CEP006	Diesel Generator Room	3900
CEP007	Control Room	730
CEP008	Toilet	35
CEP009	Hall	75
CEP010	Office	195
CEP011	Office	195
CEP012	New Boiler Room	1935
CEP013	New H.W. Pump Room	1200
CEP014	Trash Processing Room	1440
CEP015	Biological Decontamination	1560
CEP016	Sharp Destruction Room	260
CEP017	Dirty Cart Processing	900
CEP018	Stair	-
CEP019	Elevator Lobby	290
CEP020	Office	140
CEP021	Clean Work Area	840

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**** PRELIMINARY SUBMITTAL ****

Table I-1: CEP Floor Plan Information		
Room Number	Description	Area (ft²)
CEP022	Hall	90
CEP023	Vestibule	90
CEP024	Female Locker and Toilet	160
CEP025	Male Locker and Toilet	160
CEP026	Domestic Water Heater Room	1460
CEP027	Existing Boiler Room	4080
CEP028	Hall	175
CEP029	Janitors Closet	50
CEP030	Female Locker and Toilet	240
CEP031	Male Toilet	255
CEP032	Male Locker Room	110
CEP033	Lunch Room	155
CEP034	Lobby	335
CEP035	Vestibule	-
CEP200	Interstitial	400
CEP201	Heat Exchanger Room	3090
CEP202	Storage	1180
CEP203	UPS Room	220
CEP204	Air intake Structure	-
CEP300	Elevator Lobby	280
CEP301	Elevator Pump Room	120

3. Utility Connection and Cutoff Information

This section consists of two parts: Table I-2 listing the CEP utility connection and cutoff points, plus a color-coded site plan showing their locations in the CEP. Table I-2 includes, where applicable: system, room number, panel number, circuit breaker, valve number. The site plan is color-coded and shows the location of the items described in Table I-2. Information from Table I-2 is included in the Part I database.

Table I-2: CEP Utility Connection and Cutoff Points				
Connection/Cutoff Description	Device	Room Number	Location	Photo ID
Chilled water supply to ACF	*	CEP001	south wall	**
Condenser water supply to towers	*	CEP001	south wall	**
Water supply from utility for CEP	*	CEP012	west wall	**
Electrical power from switchyard	*	CEP004	south wall	**
Steam supply to ACF from CEP	*	CEP026	north wall	**
Fuel supply to boilers	*	CEP035	south wall	**
Fuel supply to generators	*	CEP035	south wall	**
Natural gas supply from utility	*	CEP026	north wall	**
Fuel supply from main tank	*	CEP035	south wall	**
Sanitary sewer from CEP	*	CEP014	north wall	**
Storm drain	*	CEP015	north wall	**

* *Connection devices to be verified during visit to site. Tag designation to be obtained from contractor and will be included in next submittal.*

** *Each connection will be photographed during our site visit and will be included in next submittal.*

4. Floors, Ceilings and Walls

This section consists of two parts: a summary of the floor, ceiling and wall coverings in the CEP; and a room-by-room presentation of the same information. Table I-3 includes room numbers, floor areas, wall areas, and the primary floor, ceiling and wall coverings. Information from Table I-3 is included in the Part I database. The Table is arranged alphanumerically by room number.

Floor, Ceiling and Wall Covering Summary (CEP):

Total Floor Area
Total Wall Area

Total Carpeted Floor Area
Total Painted Concrete Floor Area
Total Unfinished Concrete Floor Area

Table I-3: CEP Floors, Ceilings and Walls (refer to end of table for legend)					
Room Number	Floor Area (ft²) *	Wall Area (ft²) *	Primary Floor Covering	Primary Ceiling Covering	Primary Wall Covering
CEP001	4860	6625	CS	PNT	CMU/PNT-1
CEP002	470	98xht	EX	EX	EX
CEP003	280	68xht	EX	EX	EX
CEP004	2185	4875	CS	PNT-5	CMU/PNT-1
CEP005	700	2855	CS	PNT	CMU/PNT-1
CEP006	3900	2945	CS	PNT	CMU/PNT-1
CEP007	730	865	VCT	ATC	CMU/PNT-1
CEP008	35	195	CT-1,2	GWB	CMU/PNT-1
CEP009	75	355	VCT	ATC	CMU/PNT-1
CEP010	195	460	VCT	ATC	CMU/PNT-1
CEP011	195	460	VCT	ATC	CMU/PNT-1
CEP012	1935	3085	CS	PNT	CMU/PNT-1

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Table I-3: CEP Floors, Ceilings and Walls
(refer to end of table for legend)

Room Number	Floor Area (ft ²) *	Wall Area (ft ²) *	Primary Floor Covering	Primary Ceiling Covering	Primary Wall Covering
CEP013	1200	2485	CS	PNT	CMU/PNT-1
CEP014	1440	2945	CS	PNT	CMU/PNT-1
CEP015	1560	2120	CS	PNT	CMU/PNT-1
CEP016	260	650	CS	PNT	CMU/PNT-1
CEP017	900	2300	CS	PNT	CMU/PNT-1
CEP018	-	-	CS	PNT	CMU/PNT-1
CEP019	290	1730	CS	PNT	CMU/PNT-1
CEP020	140	395	VCT	ATC	CMU/PNT-1
CEP021	840	2855	CS	PNT	CMU/PNT-1
CEP022	90	260	CS	PNT	CMU/PNT-1
CEP023	90	210	CS	PNT	CMU/PNT-1
CEP024	160	420	CT-1,2	PNT	CT-3
CEP025	160	420	CT-1,2	PNT	CT-3
CEP026	1460	3280	CS	PNT	EX/PNT-1
CEP027	4080	32xht	FAF,EX	EX	EX
CEP028	175	720	VCT	PNT	CMU/PNT-1
CEP029	50	260	CS	PNT	CMU/PNT-1
CEP030	240	675	CT-1,2	PNT	CT-3
CEP031	255	640	CT-1,2	PNT	CT-3
CEP032	110	340	CT-1,2	PNT	CT-3
CEP033	155	500	RVT	PNT	CMU/PNT-1
CEP034	335	840	VCT	EX	EX/PNT-1
CEP035	-	-	EX	EX	EX
CEP200	400	100xht	---	PNT	CMU/PNT
CEP201	3090	236xht	GCMU	PNT	CMU/PNT
CEP202	1180	176xht	---	PNT	CMU/PNT
CEP203	220	64xht	GCMU	PNT	CMU/PNT

Table I-3: CEP Floors, Ceilings and Walls (refer to end of table for legend)					
Room Number	Floor Area (ft ²) *	Wall Area (ft ²) *	Primary Floor Covering	Primary Ceiling Covering	Primary Wall Covering
CEP204	-	-	---	MTL	EXP
CEP300	280	760	GCMU	ATC	CMU/PNT
CEP301	120	440	GCMU	PNT	CMU/PNT
Legend: ATC - Acoustical Tile Coating CS - Concrete Sealer CT - Ceramic Tile EX - Existing (Material) EXP - Exposed (Construction) GCMU - Glazed Coated Concrete MTL - Metal Structure GWB - Gypsum Wallboard PNT - Paint RB - Resilient Base RST - Rubber Stain Treads VCT - Vinyl Composite Tile FAF - Fluid Applied Floors					

*** All rooms to be verified during site visit ***

5. Windows and Doors

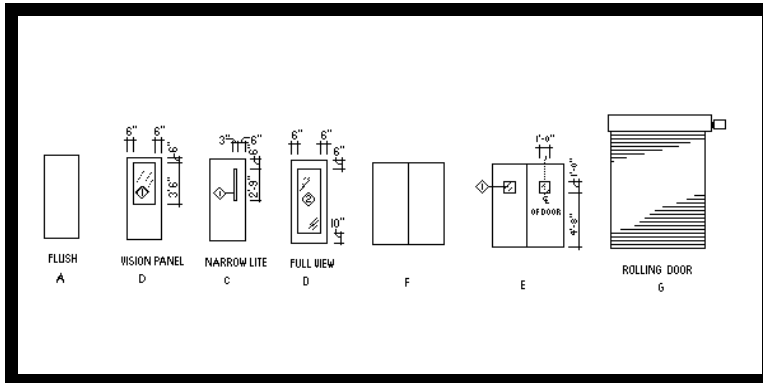
The following table presents the window and door information for the CEP. The information listed includes the total number of windows and doors, the type of windows and doors, and the number of windows on each wall. The Table is arranged alphanumerically by room number.

Table I-4: CEP Windows and Doors				
Room Number	# of Doors	Door Type	# of Windows	Window Type
CEP001	2	1 -- A 1 -- G	2	2 -- AA
CEP002	-	-	-	-
CEP003	-	-	-	-
CEP004	2	1 -- B 1 -- E	-	-
CEP005	-	-	-	-
CEP006	3	1 -- B 1 -- G 1 -- A	-	-
CEP007	3	2 -- B 1 -- A	-	-
CEP008	1	1 -- A	-	-
CEP009	2	1 -- B 1 -- D	-	-
CEP010	1	1 -- B	1	1 -- AA
CEP011	1	1 -- B	1	1 -- AA
CEP012	2	1 -- A 1 -- G	-	-
CEP013	1	1 -- A	-	-
CEP014	3	1 -- A 2 -- C	1	1 -- AA
CEP015	1	1 -- G	-	-
CEP016	1	1 -- F	-	-
CEP017	-	-	-	-

Table I-4: CEP Windows and Doors				
Room Number	# of Doors	Door Type	# of Windows	Window Type
CEP018	4	3 -- A 1 -- C	-	-
CEP019	-	-	4	3 -- BB 1 -- CC
CEP020	1	1 -- B	1	1 -- AA
CEP021	1	1 -- F	-	-
CEP022	-	-	-	-
CEP023	-	-	-	-
CEP024	1	1 -- A	-	-
CEP025	1	1 -- A	-	-
CEP026	3	1 -- A 2 -- EX	EX	EX
CEP027	-	-	-	-
CEP028	1	1 -- EX	-	-
CEP029	1	1 -- A	-	-
CEP030	1	1 -- A	EX	EX
CEP031	1	1 -- A	EX	EX
CEP032	-	-	-	-
CEP033	1	1 -- B	EX	EX
CEP034	1	1 -- EX	EX	EX
CEP035	2	2 -- EX	EX	EX
CEP200	-	-	2	2 -- BB
CEP201	-	-	EX	EX
CEP202	-	-	EX	EX
CEP203	1	1 -- A	EX	EX
CEP204	1	1 -- A	-	-
CEP300	1	1 -- A	4	2 -- DD 2 -- BB 2 -- EE
CEP301	1	1 -- A	-	-

Table I-4: CEP Windows and Doors

Room Number	# of Doors	Door Type	# of Windows	Window Type
EXTERIOR	-	-	-	-



Doors

- A -- Flush Door
- B -- Vision Panel
- C -- Narrow Lite
- D -- Full View
- E -- Double Doors
- F -- Double Doors w/ view panel
- G -- Rolling Door
- EX -- Existing Door Type to be Field Verified

Windows

- AA -- Double Insulated 5'-4" Square Window
- BB -- Double Insulated 6'-0" x 2'-8" Window
- CC -- Double Insulated 5'-4" x 2'-8" Window
- DD -- Double Insulated 1'-8" x 2'-8" Window
- EE -- Double Insulated 3'-0" Radius Window
- EX -- Existing Window Type to Field Verified

6. Lights

The following table presents the lighting information for the interior areas of the CEP. The information covers the fixtures, lamps, wattages, and if the light is on emergency power. The Table is arranged alphanumerically by room number.

Table I-5: CEP Lighting							
Room	Type of Fixture	Emer. Power ?	Type of Lamp	# of Fixture	Lamps per Fixture	Watts per Lamp	Watts per Room
CEP001	C4	Yes	HPS	24	1	100	2400
	G1		INCAN	14	2	8	
	E1		LED	1	1	-	
CEP002	G1	Yes	INCAN	2	2	8	EX
CEP003	EX	EX	EX	EX	EX	EX	EX
CEP004	D3	Yes	F32T12CW	20	2	40	1600
	G1		INCAN	12	2	8	
	E1		LED	1	1	-	
CEP005	C4	Yes	HPS	3	1	100	300
	E1		LED	1	1	-	
	G1		INCAN	2	2	8	
CEP006	C4	Yes	HPS	7	1	100	1400
	C5		HPS	7	1	100	
	E1		LED	1	1	-	
	G1		INCAN	6	2	8	
CEP007	F1		F32T12CW	16	2	40	1280
	E1		LED	1	1	-	
CEP008	D1		F32T12CW	1	2	40	80
CEP009	F6		F32T12CW	2	2	40	230
	E1		LED	1	1	-	
	H1		HPS	1	1	70	
CEP010	F3		F32T12CW	2	4	40	320
CEP011	F3		F32T12CW	2	4	40	320
CEP012	G1	Yes	INCAN	10	2	8	-
	E1		LED	1	1	-	

Table I-5: CEP Lighting							
Room	Type of Fixture	Emer. Power ?	Type of Lamp	# of Fixture	Lamps per Fixture	Watts per Lamp	Watts per Room
CEP013	D3 E1 F4 G1	Yes	F32T12CW LED F32T12CW INCAN	4 1 6 2	2 1 2 2	40 - 40 8	800
CEP014	A2 G1	Yes	MH INCAN	6 4	1 2	250 8	1500
CEP015	A2 G1	Yes	MH INCAN	8 4	1 2	250 8	2000
CEP016	F1		F32T12CW	6	2	40	480
CEP017	A2		MH	4	1	250	1000
CEP018	D1 G1 E1	Yes	F32T12CW INCAN LED	5 6 1	2 2 1	40 8 -	400
CEP019	C3 E1		MH LED	2 1	1 1	175 -	350
CEP020	F2		F32T12CW	2	3	40	240
CEP021	A2 G1 E1	Yes	MH INCAN LED	6 4 1	1 2 1	250 8 -	1500
CEP022	D2 E1		F32T12CW LED	1 2	2 1	40 -	80
CEP023	D1		F32T12CW	1	2	40	80
CEP024	D1		F32T12CW	3	2	40	240
CEP025	D1		F32T12CW	3	2	40	240
CEP026	C3 G1 E1	Yes	MH INCAN LED	10 8 2	1 2 1	175 8 -	1750
CEP027	EX	EX	EX	EX	EX	EX	EX
CEP028	D1		F32T12CW	2	2	40	160
CEP029	D1		F32T12CW	1	2	40	80
CEP030	D1		F32T12CW	4	2	40	320
CEP031	D1		F32T12CW	4	2	40	320

Table I-5: CEP Lighting							
Room	Type of Fixture	Emer. Power ?	Type of Lamp	# of Fixture	Lamps per Fixture	Watts per Lamp	Watts per Room
CEP032	D1		F32T12CW	1	2	40	80
CEP033	D1		F32T12CW	2	2	40	160
CEP034	D1 G1 E1	Yes	F32T12CW INCAN LED	3 2 1	2 2 1	40 8 -	240
CEP035	D1 E1		F32T12CW LED	1 1	2 1	40 -	80
CEP200	D3		F32T12CW	3	2	40	240
CEP201	A3 F4 G1 C2	Yes	HPS F32T12CW INCAN HPS	7 12 8 7	1 2 2 1	250 40 8 150	3760
CEP202	F4 G1 E1	Yes	F32T12CW INCAN LED	12 4 1	2 2 1	40 8 -	960
CEP203	D1 G1	Yes	F32T12CW INCAN	4 2	2 2	40 8	320
CEP204	V2 W1		INCAN HPS	6 1	1 1	100 70	670
CEP300	F1 G1	Yes	F32T12CW INCAN	2 2	2 2	40 8	160
CEP301	D3 G1	Yes	F32T12CW INCAN	2 2	2 2	40 8	160
EXT	W2 W3 H1 C6		HPS HPS HPS MH	7 2 1 4	1 1 1 1	100 150 70 175	1770

7. Plumbing Fixtures

The following table presents the plumbing fixture information for the CEP. The information listed includes the number and type of bathroom/kitchen fixtures in each room. Only rooms with plumbing fixtures are included. The Table is arranged alphanumerically by room number.

Table I-6: CEP Plumbing Fixtures **										
Room Number	Sink Type	# of Sinks	Lav Type	# of Lavs	Toilet Type	# of Toilets	Urinal Type	# of Urinals	Shower Type	# of Showers
CEP008	-	-	A1065	1		1	-	-	-	-
CEP024	-	-	A1065	2		1	-	-	A5175 A	1
CEP025	-	-	A1065	2		1	-	1	A5175 A	1
CEP029	-	1	-	-	-	-	-	-	-	-
CEP030	-	-	A1065	2		1	-	-	-	1
CEP031	-	-	A1065	2		1	-	2	-	1

*** All plumbing fixtures to be verified during site visit ***

8. Equipment Inventory

Table I-7 is a summary of the information included in the Mainsaver equipment database. A diskette including the complete Mainsaver equipment database is located in Section 13. The following equipment inventory summary includes the equipment tag, equipment description, location, and manufacturer. Only major components, such as those shown on design equipment schedules, is included in the Mainsaver equipment database, and therefore in the equipment inventory summary.

The complete Mainsaver equipment database, located on the diskette in Section 13, includes all of the following information:

- Asset number (equipment tag)
- Building (location)
- Equipment description
- Serial number
- Model number
- Manufacturer
- Vendor
- Warranty date
- Purchase date
- Warranty job order number
- Warranty asset number
- Warranty location
- Nameplate data
- Purchase cost

**** The remaining data will be collected during the field survey ****

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Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
5	AHU-1	Air Handling Unit	CEP008	Trane
5	AHU-2	Air Handling Unit	CEP008	Trane
5	AHU-3	Air Handling Unit	CEP001	Trane
5	AHU-4	Air Handling Unit	CEP001	Trane
5	AHU-5	Air Handling Unit	CEP007	Trane
5	AHU-6	Air Handling Unit	CEP026	Trane
5	AHU-7	Air Handling Unit	CEP022	Trane
5	AHU-8	Air Handling Unit	CEP014	Trane
5	AHU-9	Air Handling Unit	CEP015	Trane
16	AR-1	Air Receiver	CEP027	
16	ASP-1	Air Separator		
1	B-105	Boiler	CEP027	
1	B-106	Boiler	CEP027	
1	B-107	Boiler	CEP027	
1	B-108	Boiler	CEP027	
1	B-109	Boiler	CEP012	Cleaver-Brooks
1	B-110	Boiler	CEP012	Cleaver-Brooks
2	BFP-5	Boiler Feed Pump	CEP012	Grundfos
2	BFP-6	Boiler Feed Pump	CEP012	Grundfos
2	BFP-7	Boiler Feed Pump	CEP012	Grundfos
2	BFP-8	Boiler Feed Pump	CEP012	Grundfos
1	BHX-1	Blowdown Heat Exchanger	CEP201	Crane
1	CBT-1	Continuous Blowdown Tank		Crane
11	CDP-1	Condensate Pump	CEP003	
11	CDP-2	Condensate Pump	CEP023	
4	CDP-3	Condensate Pump	CEP023	Shipco
4	CDP-4	Condensate Pump	CEP003	Shipco
11	CDR-1	Condensate Receiver	CEP003	Shipco
11	CDT-1	Condensate Return Tank	CEP003	

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
21	CFP-1	Cooling Tower Chemical Acid Pump		
21	CFP-2	Cooling Tower Biocide Pump	CEP001	
21	CFP-3	Cooling Tower Corrosion Inhib. Pump	CEP001	
21	CFP-4	Cooling Tower Biocide Pump	CEP001	
	CFP-5	Not Used		
20	CFP-6	Chilled Water Corrosion Inhib. Pump	CEP001	
1	CFP-7	Deaerating Heater Chemical Pump	CEP001	
2	CFP-8	Boiler 109 Phosphate Pump	CEP001	
2	CFP-9	Boiler 110 Phosphate Pump	CEP001	
20	CHP-1	Chiller Pump	CEP001	
20	CHP-2	Chiller Pump	CEP001	
20	CHP-3	Chiller Pump	CEP001	
20	CHR-1	Chiller	CEP001	
20	CHR-2	Chiller	CEP001	
20	CHR-3	Chiller	CEP001	
2	CST-1	Chemical Storage Tank	Outside CEP	
21	CTC-1	Cooling Tower Cell	Roof	
21	CTC-2	Cooling Tower Cell	Roof	
21	CTC-3	Cooling Tower Cell	Roof	
21	CTF-1	Cooling Tower Fan	Roof	
21	CTF-2	Cooling Tower Fan	Roof	
21	CTF-3	Cooling Tower Fan	Roof	
21	CTP-1	Cooling Tower Pump	Roof	
21	CTP-2	Cooling Tower Pump	Roof	
21	CTP-3	Cooling Tower Pump	Roof	
1	DAH-1	Deaerating Heater	CEP013	Crane

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
2	DALK-1	Dealkalizer	CEP001	McNew Culligan
4	DCP-1	Domestic Recirculating Pump	CEP026	
4	DCP-2	Domestic Recirculating Pump	CEP026	
4	DCP-3	Domestic Recirculating Pump	CEP026	
4	DCP-4	Domestic Recirculating Pump	CEP026	
3	DG-1	Diesel Generator	CEP006	Cummins
3	DG-2	Diesel Generator	CEP006	Cummins
3	DG-3	Diesel Generator	CEP006	Cummins
3	DG-4	Diesel Generator	CEP006	Cummins
3	DG-5	Diesel Generator	CEP006	Cummins
3	DG-6	Diesel Generator	CEP006	Cummins
17	DP-1	Distribution Pump		
17	DP-2	Distribution Pump		
17	DP-3	Distribution Pump		
4	DWT-1	Domestic Water HT/Storage Tank	CEP026	Adamson
4	DWT-2	Domestic Water HT/Storage Tank	CEP026	Adamson
4	DWT-3	Domestic Water HT/Storage Tank	CEP026	Adamson
5	E-01	Exhaust Fan	Roof	Greenheck
5	E-02	Exhaust Fan	Roof	Greenheck
5	E-03	Exhaust Fan	Roof	Greenheck
5	E-04	Exhaust Fan	Roof	Greenheck
5	E-05	Exhaust Fan	Roof	Greenheck
5	E-06	Exhaust Fan	Roof	Greenheck
5	E-07	Exhaust Fan	Roof	Greenheck
5	E-08	Exhaust Fan	Roof	Greenheck
5	E-09	Exhaust Fan	Roof	Greenheck
5	E-10	Exhaust Fan	CEP001	Greenheck

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
5	E-11	Exhaust Fan	Roof	Greenheck
5	E-12	Exhaust Fan	Roof	Greenheck
	EXT-1	Expansion Tank	CEP001	
	EXT-2	Expansion Tank	CEP012	
	EXT-3	Expansion Tank	CEP012	
5	F-105	Forced Draft Fan		
5	F-106	Forced Draft Fan		
5	F-107	Forced Draft Fan		
5	F-108	Forced Draft Fan		
5	F-109	Forced Draft Fan		
5	F-110	Forced Draft Fan		
3	FDT-1	Day Tank	CEP006	
3	FDT-2	Day Tank	CEP006	
3	FDT-3	Day Tank	CEP006	
3	FDT-4	Day Tank	CEP006	
3	FDT-5	Day Tank	CEP006	
3	FDT-6	Day Tank	CEP006	
19	FOP-3	Fuel Oil Pump	Outside CEP	
19	FOP-4	Fuel Oil Pump	Outside CEP	
19	FOP-5	Fuel Oil Pump	Outside CEP	
19	FST-1	Fuel Oil Storage Tank	CEP006	
4	HHX-1	Hot Water Heat Exchanger	CEP201	
4	HHX-2	Hot Water Heat Exchanger	CEP201	
4	HHX-3	Hot Water Heat Exchanger	CEP201	
	HRC-1	Chilled Heat Recovery Cond.		
4	HWP-1	Hot Water Pump	CEP026	
4	HWP-2	Hot Water Pump	CEP026	

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
4	HWP-3	Hot Water Pump	CEP026	
4	HWP-4	Hot Water Pump	CEP026	
1	IBT-1	Intermittent Blow Off Tank		Adamson
16	PAC-1	Plant Air Compressor	CEP027	Ingersoll-Rand
16	PAC-2	Plant Air Compressor	CEP027	Ingersoll-Rand
16	PAD-1	Plant Air Dryer	CEP027	Ingersoll-Rand
12	PWI-1	Pathological Waste Incinerator	CEP014	
12	RAS-1	Retort Autoclave System	CEP014	
12	RAS-2	Retort Autoclave System	CEP014	
20	RSR-1	Refrigerant Storage Recycling System	CEP001	
12	SDU-1	Sharps Destruction Unit	CEP016	
12	SDU-2	Sharps Destruction Unit	CEP016	
4	S-01	Supply Air Fan	CEP006	Greenheck
4	S-02	Supply Air Fan	CEP006	Greenheck
4	S-03	Supply Air Fan	CEP006	Greenheck
4	S-04	Supply Air Fan	CEP006	Greenheck
4	S-05	Supply Air Fan	CEP006	Greenheck
4	S-06	Supply Air Fan	CEP006	Greenheck
4	S-07	Supply Air Fan	CEP004	Greenheck
4	S-08	Supply Air Fan	CEP004	Greenheck
2	SOF-1	Water Softner	CEP001	McNew Culligan
2	SP-1A	Steam Powered Pump	CEP012	
2	SP-1B	Steam Powered Pump	CEP012	
2	SP-2A	Steam Powered Pump	CEP012	
2	SP-2B	Steam Powered Pump	CEP012	
2	SP-3A	Steam Powered Pump	CEP012	
2	SP-3B	Steam Powered Pump	CEP012	
2	TWP-1	Treated Water Pump	CEP202	Grundfos

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
2	TWP-2	Treated Water Pump	CEP202	Grundfos
2	TWT-1	Treated Water Tank	CEP202	
5	UH-01	Unit Heater	CEP001	Trane
5	UH-02	Unit Heater	CEP001	Trane
5	UH-03	Unit Heater	CEP001	Trane
5	UH-04	Unit Heater	CEP004	Trane
5	UH-05	Unit Heater	CEP006	Trane
5	UH-06	Unit Heater	CEP006	Trane
5	UH-07	Unit Heater	CEP006	Trane
5	UH-08	Unit Heater	CEP014	Trane
5	UH-09	Unit Heater	CEP014	Trane
5	UH-10	Unit Heater	CEP014	Trane
5	UH-11	Unit Heater	CEP017	Trane
5	UH-12	Unit Heater	CEP021	Trane
5	UH-13	Unit Heater	CEP026	Trane
5	UH-14	Unit Heater	CEP026	Trane
5	UH-15	Unit Heater	CEP026	Trane
5	UH-16	Unit Heater	CEP016	Trane
17	SWP-1	Service Water Pump	CEP005	Grundfos
17	SWP-2	Service Water Pump	CEP005	Grundfos
5	EF-1	Exhaust/Intake Fan	CEP300	
5	EF-2	Exhaust/Intake Fan	CEP300	
5	IF-1	Exhaust/Intake Fan	Stack	
5	IF-2	Exhaust/Intake Fan	Stack	
5	IF-3	Exhaust/Intake Fan	Stack	
5	CONV-1	Convactor	CEP018	
5	CONV-2	Convactor	CEP 300 Hall	
5	AC-1	Air Conditioning Unit		

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
5	AC-2	Air Conditioning Unit		
5	CU-1	Condensing Unit: Air Cooled		
5	CU-2	Condensing Unit: Air Cooled		
5	CUH-1	Cabinet Unit Heater	Stair	
1	ST-1	Steam Trap		
1	ST-2	Steam Trap		
1	ST-3	Steam Trap		
1	ST-4	Steam Trap		
1	ST-5	Steam Trap		
1	STK-1	Plant Stack		
15	SAF-1	Seal Air Fan	CEP027	Greenheck
15	SAF-2	Seal Air Fan	CEP012	Greenheck
3	LOT-1	Lube Oil Tank (Buried)	Outside CEP	
3	LOT-2	Lube Oil Tank (Buried)	Outside CEP	
4	CW-1	Cart Washer	CEP017	
3	CLOP-1	Clean Lube Oil Pump	CEP006	
3	DLOP-1	Dirty Lube Oil Pump	CEP006	
11	SP-9	Submersible Pump	CEP037	
5	G-01	Gravity Intake/Relief		
5	G-02	Gravity Intake/Relief		
5	G-03	Gravity Intake/Relief		
5	G-04	Gravity Intake/Relief		
5	G-05	Gravity Intake/Relief		
5	G-06	Gravity Intake/Relief		
5	G-07	Gravity Intake/Relief		
7	CB-52.1	Circuit Breaker	CEP004	
7	CB-52.2	Circuit Breaker	CEP004	
7	CB-52.3	Circuit Breaker	CEP004	

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
7	CB-52.4	Circuit Breaker	CEP004	
7	CB-52.5	Circuit Breaker	CEP004	
7	CB-52.6	Circuit Breaker	CEP004	
7	CB-52.7	Circuit Breaker	CEP004	
7	CB-52.8	Circuit Breaker	CEP004	
7	CB-52.9	Circuit Breaker	CEP004	
7	CB-52.10	Circuit Breaker	CEP004	
7	CB-52.11	Circuit Breaker	CEP004	
7	CB-52.12	Circuit Breaker	CEP004	
7	CB-52.13	Circuit Breaker	CEP004	
7	CB-52.14	Circuit Breaker	CEP004	
7	CB-52.15	Circuit Breaker	CEP004	
7	CB-52.16	Circuit Breaker	CEP004	
7	CB-52.17	Circuit Breaker	CEP004	
7	CB-52.18	Circuit Breaker	CEP004	
7	CB-52.19	Circuit Breaker	CEP004	
7	MCC-1	Motor Control Center	CEP004	
7	MCC-2	Motor Control Center	CEP004	
7	MCC-3	Motor Control Center	CEP004	
7	MCC-4	Motor Control Center	CEP004	
7	SWBD-1	Switchboard	CEP004	
7	SWBD-2	Switchboard	CEP004	
7	BC-1	Battery Charger		
7	B-1	Battery		
7	CPLC-1	Control Power Load Center		
7	UPS-1	UPS System		
7	LUVD-1	Panelboard	CEP203	
7	LP-1	Panelboard	CEP004	
7	LVD-1	Panelboard	CEP004	

Table I-7: Equipment Inventory				
Sys	Tag	Description	Location	Manufacturer
7	LVD-2	Panelboard	CEP034	
7	LVD-3	Panelboard	CEP021	
7	LVD-4	Panelboard	CEP004	
7	LVDC-1	Panelboard	CEP034	
7	XFMR-1	Main Transformer	CEP004	
7	XFMR-2	Main Transformer	CEP004	
7	XFMR-3	Transformer	CEP004	
7	MCS-1	Main Cutoff Switch	CEP004	
7	MCS-2	Main Cutoff Switch	CEP004	

9. Warranty Information

This section consists of two parts: Table I-8 is an index of the warranty information for each piece of equipment included in the Equipment Inventory which have a warranty exceeding one (1) year. Equipment with warranties of one (1) or less are the responsibility of the construction contractor and are not included in this Table. The warranty information includes: the specification section, the warranty expiration date, the warranty point of contact, a cross-reference to the written warranties, and any special O&M required to keep the warranty valid. The Table is arranged alphanumerically by equipment.

Following the Table is a photocopy of each warranty referenced in Table I-8. The warranties are arranged alphabetically by manufacturer.

Table I-8: CEP Warranty Index for Equipment Warrantied Over One Year					
Equipment	Spec. Section	Warranty Expiration Date	Point of Contact	Copy of Warranty Submitted?	Special O&M Required to Maintain Warranty

Written Warranties

This section includes a copy of all manufacturer's warranties for all equipment from Sections 1 through 18. The warranties are arranged alphabetically by manufacturer. The following is an index of the included warranties. Refer to Table I-8 for an index of warranties longer than one (1) year.

Manufacturer	Page
Adamson	W-1
AMSCO	W-2
Magnetrol	W-3
M ^c New Culligan	W-4
Shippensburg Pump	W-5
Tnemec	W-6
Vulcan	W-7
Wilkins	W-8

ADAMSON WARRANTY

Adamson Company, Inc. guarantees that any item of its own manufacture shall be free of defects in material or workmanship for a period of one year from date of start-up, provided that start-up occurs within six months from date of shipment.

Adamson guarantees that each water heater will operate at rated capacity when properly installed and operated at design conditions.

Adamson shall accept unit responsibility to insure that the original manufacturer's written warranty will be honored on all accessories supplied by Adamson.

If any defect in material or workmanship is reported to Adamson in writing within the warranty period, Adamson shall, at its option, repair or replace any defective items of its own manufacture or provide instructions as to where items manufactured by others and supplied by Adamson may be returned for prompt repair or replacement.

All warranties are voided if repairs or alterations are performed without the prior written consent of Adamson. Adamson will not be held liable for any labor, freight charges, loss of time, consequential or incidental damages, installation costs, or contingent liability of any kind resulting from the manufacture, sale, installation or use of this equipment. The Owner's sole and exclusive remedy under this warranty is repair or replacement of defects as set out in the terms of this warranty.

This warranty is in lieu of any and all other warranties and/or guarantees, expressed or implied, including the implied warranty of merchantability and the implied warranty of fitness for particular purpose.

SPECIAL CONDITIONS FOR ADAMSON SERIAL # PSD- 471- KK ONLY:

NONE

LIMITED WARRANTY CENTRAL AIR CONDITIONER

**TCC, TCD, TCH and TCM
Models Less than 20 Tons
(Parts Only)**

This warranty is extended by American Standard Inc., to the original purchaser and to any succeeding owner of the real property to which the **Central Air Conditioner** is originally affixed, and applies to products purchased and retained for use within the U.S.A.

If any part, including the indoor and outdoor coil, of your **Central Air Conditioner** fails because of a manufacturing defect within one year from the date of original purchase, Warrantor will furnish without charge the required replacement part. **Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.**

In addition, if the sealed motor-compressor fails because of a manufacturing defect within the second through fifth year from the date of original purchase, Warrantor will furnish without charge the required replacement compressor*. **Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.**

This warranty does not cover failure of your **Central Air Conditioner** if it is damaged while in your possession or if the failure is caused by unreasonable use. In no event shall Warrantor be liable for incidental or consequential damages. In no event shall any implied warranty of merchantability or fitness for use exceed the term of the limited warranty stated above.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization or an authorized service organization in your area. All you need do is look us up in the yellow pages or write to the address given below. If you wish further help or information concerning this warranty, contact:

Manager - Product Service
American Standard Inc.
Clarksville, TN 37040-1008

American Standard Inc;
The Trane Co.
Clarksville, TN 37040-1008
Warrantor

GW-511-4090

*Optional extended sixth (6th) through tenth (10th) year limited warranty for the compressor is available for most models.

Guarantee: Central Sprinkler Corp. will repair and/or replace any products found to be defective in material or workmanship within a period of one year from the date of shipment. Please refer to the current Price List for further details of the warranty.



Central Sprinkler Corporation

451 North Cannon Avenue, Lansdale, PA 19446
Phone (215) 362-0700

OWNER'S COPY

Ebco Water Cooler Limited Warranty

FIRST YEAR:

The Manufacturer promises the original purchaser (user) to repair or, at the Manufacturer's option, to replace any part of this water cooler which proves to be inoperative due to a defect in material or workmanship under normal use, for a period of one year from the date of original installation, or for a period of eighteen (18) months after date of shipment, from the factory, whichever occurs first. During the one year warranty the Manufacturer will, through its approved service center or factory repair department, provide labor and parts necessary to correct such inoperative condition at no charge, if the water cooler has been installed and operated in accordance with the water cooler instructions furnished with the water cooler.

If it becomes necessary to ship the inoperative water cooler to the approved service center or factory repair department, the Manufacturer will pay the transportation charges both ways via common carrier. Local delivery charges are not covered.

The cost of labor required to diagnose and reconnect plumbing and electrical connections will be the responsibility of the user (owner).

SECOND THROUGH FIFTH YEAR:

In addition, after expiration of the first year warranty, the Manufacturer promises within the second through fifth year to repair or, at its option, to replace any part of the sealed refrigeration system (compressor, condenser, evaporator, capillary, expansion and interconnecting refrigerant lines, or the internal cold water system cooling unit, pressure-control and related interconnecting cold water lines) which prove to be inoperative due to a defect in material or workmanship. The Manufacturer will provide through its approved service center or the factory repair department, the labor at no charge, to install such parts of the sealed refrigeration or cold water system.

If it becomes necessary to ship the inoperative water cooler to the approved service center or factory repair department, the Manufacturer will pay the transportation charges both ways via common carrier. Local delivery charges are not covered.

The cost of labor to diagnose a sealed refrigeration or cold water system defect will be the responsibility of the user (owner).

In addition to the sealed refrigeration or cold water system coverage, if any of the following parts become inoperative due to a defect in material or workmanship, the Manufacturer promises to replace the part at no charge providing the part is repaired and returned, properly tagged, to the nearest approved service center or the factory.

These parts are: hot and hot tank thermostats, heat limited cold thermostat, condenser fan motor and fan relay compressor starting relay and overload, expansion water regulating valve, electronic expansion valve and P.C. board, electronic solenoid valve, boiler valve regulating mechanism, steam assembly.

The labor to change the parts in the above paragraph will be the responsibility of the user (owner).

GENERAL PROVISIONS AND EXCLUSIONS:

This warranty applies only within the Continental Limits of the United States of America and Canada.

This warranty does not apply and no agreement, either expressed or implied, shall be applicable if the attached serial number is removed, destroyed or obliterated.

This warranty does not apply if service of the sealed refrigeration system or cold water system or parts furnished to original equipment by the Manufacturer are not obtained from an approved service center or the factory.

This warranty does not apply to any water component that becomes inoperative due to lining conditions.

This warranty does not apply to any water cooler or component that becomes inoperative because of a failure to comply with standards or regulations adopted by any government or agency thereof subsequent to the date of shipment from the factory.

This warranty does not cover performance failure or damages of any part resulting from external causes such as abrasions, abuse, misuse, misapplication, corrosion or age of unit.

This warranty does not apply to non-refrigerated water faucets, capillaries, dispensers and accessories, on the following models: DP154; HW; HWMS; ER2-AS; HWCL; TFX; ERI. These products and models have individual warranties.

WARNING:

The warranty and the Manufacturer's laboratory listing for this machine automatically voided if the machine is altered, modified, or combined with any other machine or device. Alteration or modification of this machine may cause serious flooding and/or hazardous electrical shock or fire.

Except as set forth herein, the Manufacturer's

agreement expressed, implied or statutory, including any implied warranty of merchantability or fitness for a particular purpose.

The foregoing is in lieu of all other agreements expressed, implied or statutory and all other obligations or liabilities of the Manufacturer. The Manufacturer does not assume or authorize any person to assume any obligations of liability in connection with this product. In no event will the Manufacturer be liable for special or consequential damages or for any delay in the performance of this agreement due to causes beyond their control.

EBCO

MANUFACTURING COMPANY

265N, Hamilton Rd. • P.O. Box 12150 • Columbus, OH 43215-0150 • (614) 861-1350 • FAX: 614/861-6783

080045 REV. 1

Printed in U.S.A.

AIR COMPRESSOR GROUP BONDOL WARRANTY & REGISTERED START UP

Warranty

The Company warrants that the equipment manufactured by it and delivered hereunder will be free of defects in material and workmanship for a period of two years, with a one extended demand warranty from the date of placing the Equipment in operation or eighteen months (see extended demand warranty) from the date of shipment from Davidson, NC, whichever shall first occur. The Purchaser shall be obligated to promptly report any failure to conform to this warranty, in writing to the Company, in a period, whereupon the Company shall, at its option, correct such nonconformity, by suitable repair to such equipment, or, if such a replacement part - O.R. point of shipment passed the Purchaser, as stated, installed, maintained and operated such Equipment in accordance with good industry practice and has complied with specific recommendations of the Company. Accessories or equipment furnished by the Company, but manufactured by others, shall carry whatever warranty the manufacturers have conveyed to the Company and which can be passed on to the Purchaser. The Company shall not be liable for any repairs, replacements, or adjustments to the Equipment or any costs of labor performed by the Purchaser or others without the Company's prior written approval.

The effects of corrosion, erosion and normal wear and tear are specifically excluded. Performance warranties are limited to those specifically stated within the Company's proposal. In no responsibility for meeting such performance warranties are limited to specified tests, the Company's obligation shall be to correct in the manner and for the period of time provided above.

THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Correction by the Company of nonconformities, whether patent or latent, in the manner and for the period of time provided above shall constitute fulfillment of all liabilities of the Company for such nonconformities whether based on contract, warranty, negligence, indemnity, strict liability or otherwise with respect to or arising out of such Equipment.

The Purchaser shall not operate Equipment which is considered to be defective, without first notifying the Company in writing of its intention to do so. Any such use of Equipment will be at Purchaser's sole risk and liability.

Limitation of Liability

The remedies of the Purchaser set forth herein are exclusive, and the true liability of the Company with respect to this contract or the Equipment and services furnished hereunder, in connection with the performance or breach thereof, or from the manufacturing, sale, delivery, installation, repair or maintenance or operation thereof by or furnished under this contract, whether based on contract, warranty, negligence, indemnity, strict liability or otherwise, shall not exceed the purchase price of the unit of Equipment upon which such liability is based.

The Company and its suppliers shall not be liable to the Purchaser, any successors in interest or any beneficiary or assignee of this contract for any consequential, indirect, special or punitive damages arising out of this contract or any breach thereof, or any defect in, or failure of, or malfunction of the Equipment hereunder, whether based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non-operation, increased expenses of operation, cost of replacement of equipment, lower or claims of Purchaser or customers of the Purchaser for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability or otherwise.

5-Year Product Warranty

All equipment (except printed circuit boards and components thereon) is warranted against defective material or workmanship for a period of FIVE YEARS from the date of shipment thereof, during which period, if the Purchaser notifies Magnetrol, the company will repair or replace the defective material, or cause the equipment to be returned at Purchaser's expense to Magnetrol factory for repair or replacement of the part or material and returned to the Purchaser, transportation collect. There are no other warranties expressed or implied, except special written warranties covering some Magnetrol products. Magnetrol shall not be liable for labor claims, direct or consequential damage or expense arising from the installation or use of the equipment. Printed circuit boards carry the above warranty for a period of two years from the date of shipment.

Important

OUR SERVICE POLICY

Owners of Magnetrol controls may request to return a control or any part of a control for complete rebuilding or replacement. They will be rebuilt or replaced promptly. If, once returned, the underlying cause of the trouble is found to be defective material or workmanship (within the guarantee period), the item will be either rebuilt, or replaced completely, without charge on an F.O.B. factory basis. If the trouble is the result of conditions beyond our control or is not covered by the guarantee, there will be a charge for labor and a charge for parts required to rebuild or replace the item.

In some cases it may be expedient to ship new parts or in extreme cases, a complete new control to replace the original before it is returned. If this is desired, inform us as to what parts are needed, the model number and the serial number of the control and repair part number. Credits for materials returned in such cases will be determined on the basis of the applicability of our guarantee.

No claims for labor or consequential damage will be allowed.

RETURN MATERIAL PROCEDURE

So that we may efficiently process any materials that are returned, it is essential that a "Return Material Authorization" tag be obtained from the factory for attachment to the goods. This is available through Magnetrol's local representative or by writing directly to the factory supplying the following information.

1. Installation Name
2. Description of Material
3. Production Number
4. Serial Number
5. Reason for Return
6. Desired Action

All shipments returned to the factory must be by Prepaid transportation.

All replacements will be shipped F.O.B. factory

OASIS Wheelchair Water Cooler Specifications

Limited 5-Year Warranty (Continental limits of the United States and Canada): Five years on the sealed refrigeration system and most component parts. Detailed warranty certificate enclosed with each water cooler; sample copy available upon request.

Warranty: One year on the sealed refrigeration system and most component parts. Four-year replacement contract on sealed refrigeration system. Detailed warranty certificate enclosed with each water cooler; sample copy available upon request.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc.

THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL

BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide buyer with replacement of the product; or refund of the purchase price of the product if any defect in materials is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Tnemec Company, Inc. is willing and able to replace the defective materials or refund the purchase price.

Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

PUBLISHED TECHNICAL DATA AND INSTRUCTIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
CONTACT YOUR TNEMEC REPRESENTATIVE FOR CURRENT TECHNICAL DATA AND INSTRUCTIONS.

TNEMEC COMPANY, INC.

Post Office Box 411749
K.C., Mo. 64141-1749
(816) 483-2400
FAX: (816) 483-1251



Manufacturing Plants:
Kansas City, Missouri
Baltimore, Maryland
Compton, California

TECHNICAL SPECIFICATIONS
AND DESCRIPTION FOR
UNINTERRUPTIBLE POWER SYSTEM
EPS 2000 (15 - 40 kVA)
Three Phase in - Three phase out

10.0 WARRANTY

The UPS shall be covered by a full parts and labor warranty from the manufacturer. The warranty period shall be for twelve (12) months from date of installation or acceptance by customer or eighteen (18) months from date of shipment from the manufacturer, whichever occurs first.

WARRANTY AND LIMITATION OF LIABILITY

Seller warrants for a period of eighteen (18) months from date of shipment from its factory or one (1) year from date of installation, whichever occurs first, that all Products furnished by it are free from defects in materials and workmanship.

Seller's liability for any breach of this Warranty shall be limited solely to replacement or repair, at the sole option of Seller, of any part or parts found to be defective during the Warranty period providing the Product is properly installed and is being used as originally intended. Buyer must notify Seller of any breach of this Warranty within the aforementioned Warranty period; defective parts must be shipped by Buyer to Seller, transportation charges prepaid.

IT IS EXPRESSLY AGREED THAT THIS SHALL BE THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY COSTS, LOSS, EXPENSE, DAMAGES, SPECIAL DAMAGES, INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE DESIGN, MANUFACTURE, SALE, USE OR REPAIR OF THE PRODUCT WHETHER BASED UPON WARRANTY, CONTRACT, NEGLIGENCE OR STRICT LIABILITY. IN NO EVENT WILL LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT.

THE WARRANTY AND LIMITS OF LIABILITY CONTAINED HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS WARRANTY.

Seller neither assumes nor authorizes any person to assume for it any other Warranty obligation in connection with the sale of the Product. This Warranty shall not apply to any Product or parts of Products which (a) have been repaired or altered outside of Seller's facilities; or (b) have been subject to misuse, negligence or accident; or (c) have been used in a manner contrary to Seller's Instructions.

In the case of Products not manufactured by Seller, there is no warranty from Seller, but Seller will extend to the Buyer any Warranty of Seller's supplier of such products.

SPECIFICATIONS & WARRANTY

The contractor shall furnish and install Vulcan Cabinet Unit Heaters as selected to meet or exceed job requirements. The Cabinet Unit Heaters will conform to the items listed below.

CABINETS

All cabinets will be constructed with 18 gauge electro galvanized steel. Internal cabinets, side panels and top. The front panel shall be furnished in 16-gauge electro galvanized steel. Adequate work area for installation of control valves or electrical equipment shall be provided on both sides of the internal cabinet. The motor/fan support shall be provided with a mid length support gusset to insure quiet operation.

The cabinet shall be provided with a neutral eggshell baked enamel prime coat as standard. (Available if specified) Powder coated baked enamel, color selected from Vulcan Cabinet Unit Heater Color Chart.

All cabinets shall be supplied with adjustable rear mounting brackets which will provide adjustment to correct alignment of the unit at installation to non square or out of true walls, joists, studs or surfaces. Adjustable leveling legs (two each base leg) are available when specified.

RECESSED UNITS

All recessed units shall be supplied with a "Wall Seal" assembly. This assembly shall provide protection to the wall or ceiling construction material. The "Wall Seal" shall be supplied in an eggshell baked enamel prime coat as standard. (When specified) Baked enamel colors may be selected from Vulcan Cabinet Unit Heater Color Chart.

CEILING MOUNT OR RECESSED UNITS

All "RC" units shall be supplied with a continuous hinged front panel. The continuous hinge shall provide full swing through 90°. A safety chain shall be provided as standard to prevent the face panel from swinging full open accidentally. This chain must be easily detached to allow full access for servicing.

FILTERS

All filters supplied as standard shall be reusable aluminum media with a 61% arrestance level. Filters shall be slide in type which are locked into position with two cotter pins.

FANS

Fan wheels shall be centrifugal, forward curved, double width of electro galvanized steel. Fan housings shall be of formed, galvanized sheet metal.

MOTORS

All motors shall have integral thermal protection and start at 78 percent of rated voltage. All motors shall be of p.s.c. design and be capable of operating in high static conditions. All motors shall be factory run-tested and assembled in unit prior to shipping.

ELECTRICAL

All internal wiring shall be done at the factory and every unit shall be factory tested for reliability.

FRESH AIR DAMPERS

When desired specify either of the following:

1. Where noted 25% Manual Outside Air Dampers shall be provided. A manually operated damper quadrant shall provide from 0% to 25% outside air through the use of a single blade damper.

2. Where noted 25% Motorized Outside Air Dampers shall be provided. A synchronous motor (115/60/1) interlocked with the blower shall automatically open the outside air damper when blower starts. The single blade damper shall be adjustable from 0% to 25% outside air. When the blower stops or there is a loss of power the damper shall return to the closed position.

WARRANTY

The products in this catalog are warranted by Vulcan Radiator Corporation, to be free from defects in material and workmanship for a period of one (1) year from the date of shipment from Vulcan's plant. Vulcan's liability under this warranty is limited to replacing or repairing at our option, F.O.B. our plant any defective component or assembly returned to our factory prepaid and with proper return authorization document. All repairs or replacements are made subject to factory inspection. No liability is accepted for consequential damages, freight or labor charges.

Vulcan

VULCAN RADIATOR CORPORATION John Fitch Blvd. • South Windsor, CT 06074 • Tel: (203)289-6843 Fax (203) 528-8870

II. GUARANTEE

Attrition loss of mineral is guaranteed not to exceed 3% per year for a period of three (3) years.

All mechanical equipment is guaranteed for one (1) year against any defects in workmanship or materials. Any part proving to be defective will be replaced or repaired within this period.

The manufacturer guarantees that under actual normal operating conditions, the mineral shall not be washed out of the system during the service run or during the backwash cycle; that the turbidity and color of the effluent, by reason of passing through the softening system, shall not be greater than that of the incoming water; and that the underdrain system, gravel and mineral shall not become fouled, either with turbidity or by dirt, rust, or scale from the softener system, while operating as noted in the manufacturer's instruction manual.

OVER ALL SYSTEM DIMENSIONS : L 144" X W 76" X H 101"
SHIPPING WEIGHT : 19000 LBS

* Maintain hardness near zero, not to exceed 1ppm as CaCO_3 .

* Maintain Solids concentration less than 3,500ppm

II. GUARANTEE

Attrition loss of mineral is guaranteed not to exceed 5% per year for a period of three (3) years.

All mechanical equipment is guaranteed for one (1) year against any defects in workmanship or materials. Any part proving to be defective will be replaced or repaired within this period.

The manufacturer guarantees that under actual normal operating conditions, the mineral shall not be washed out of the system during the service run or during the backwash cycle; that the turbidity and color of the effluent, by reason of passing through the softening system, shall not be greater than that of the incoming water; and that the underdrain system, gravel and mineral shall not become fouled, either with turbidity or by dirt, rust, or scale from the dealkalizer system, while operating as noted in the manufacturer's instruction manual.

OVER ALL SYSTEM DIMENSIONS : L 258" X W 90" X H 105"
SHIPPING WEIGHT : 23000 LBS

** Maintain 90% removal of alkalinity when expressed by
(Methylorange-phenolphthalein) alkalinity*



WARRANTY

WILKINS' Backflow Preventers are warranted against defects in material and workmanship for a period of one year from date of shipment strictly in accordance with WILKINS' Certificate of Limited Warranty.

10. HVAC Filters

The following table presents the filter information for the CEP's HVAC systems including the air handling units, supply fans, high-efficiency units, etc. The information listed includes: filter type, filter size, number of filters, manufacturer and model number. The Table is arranged alphanumerically by equipment.

*** Filter information to be collected during field survey ***

Table I-9: CEP HVAC Filters					
Equipment	Filter Description	Filter Quantity & Size	Total Static Press.	Manufact.	Model #
CEP-AHU-001					
CEP-AHU-002					
CEP-AHU-003					
CEP-AHU-004					
CEP-AHU-005					
CEP-AHU-006					
CEP-AHU-007					
CEP-AHU-008					

Table I-9: CEP HVAC Filters					
Equipment	Filter Description	Filter Quantity & Size	Total Static Press.	Manufact.	Model #
CEP-AHU-009					

11. Roofing

The roof of the central energy plant is designed at different levels. Since the new central energy plant is being constructed around the existing plant the roof constructions and area must be field verified.

Table I-10: Total Area of Roof Surface/System at the CEP				
System *	Area (ft ²) *	Manufacturer *	Supplier *	Installer *
System 1				
System 2				
.				
.				
Etc.				

All information to be verified during site visit.

- ▶ Preventive Maintenance Procedures and Schedule
- ▶ Repair Procedures
- ▶ Modification Procedures
- ▶ Common Roofing Maintenance Errors
- ▶ Roof Structural Load Limits
- ▶ Color-coded Roof Plan

GOOD PREVENTIVE MAINTENANCE IS MANDATORY

A successful roof management program requires an understanding of the long term approach by financial, engineering, and purchasing managers from the outset. Planned maintenance over the entire life of a roof can be expressed in short term and long term advantages readily recognized by all management levels. Roofing and flashing should be maintained to prevent water or moisture from entering the building and to eliminate the necessity for renewal for as long a period as is practical. When renewal is required, the choice of materials for reroofing should be selected from those that will provide at least 20 years of service.

There are many scientific tests that roofing experts can make to determine the condition of your building's roof. Here, however, is a quick check that you can make to quickly ascertain whether or not you need an inspection

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by a qualified roof maintenance engineer. Look closely at the Southwestern exposure of your roof - "The Weather Ridge" - if the gravel is dislodged or you can see exposed felts, your roof needs help now.

The most costly error a building owner can make regarding his built-up roof is to permit the expensive structural elements of his roof (the felts) to be consumed in order to achieve the arbitrary service life stated in the original specifications. Proper interim maintenance can extend roof life economically to more than double the years stated on the roof bond!

ROOF INSPECTION

The time for a thorough roof inspection is immediately after Winter. Ice, sleet, snow, wind, hail, freezing and thawing can mean disaster for a roof. Severe temperature changes break soldered joints in gravel stops. Once opened, water penetrates the felts and insulation and causes unseen deterioration that ultimately leads to roof failure.

As metal decks expand and contract with temperature changes, surface cracks may appear. Water seeping through masonry parapet walls freezes, and the expansive force that results causes spalls in the brick and stone, forcing mortar joints open.

A professional detailed examination in Spring points up Winter problems and makes the right corrective action possible - before extensive damage can develop. Inspection can reveal:

- Breaks in parapet and roof flashing
- Expansion cracks
- Pitch pockets that require refilling
- Parapet walls and coping that need waterproofing
- Areas of protective gravel that have been dislodged
- Small cracks, blisters and exposed felts that require mending
- ! Blocked gutter and drains that need re-opening

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- Debris that has collected on the roof
- Gravel stops that need to be resoldered and reflashed.

All roof projections need a Spring inspection also - ladder struts, guy wires, sign bracing, metal vents, and pipes. Such structures often cause severe roof damage because of improper maintenance of pitch pockets and curbed openings.

WHAT MAKES A ROOF LAST ?

The most important part of your roof is the top of the roofing felt closest to the atmosphere. When not protected by bitumen, these felts become contaminated by fungi, ozones, water, and the entire spectrum of light rays. The felts rot! Roofing felts are not by themselves waterproof! If not properly protected by bitumen, they wick and disintegrate.

A properly protected felt is covered by a thin coating of bitumen that permits the felts to be flexible while still waterproofed! The most important aspect of protecting a roof then is the "top coating". In order to be both thin and yet cover all surfaces, it should be poured on and not mopped on the felts. A bitumen coating of between 75 to 100 pounds per 100 square feet applied at a moderate temperature is recommended. Bitumen is the heart of a roof system. It protects the felt as it waterproofs, and it is self-healing owing to its ability to cold-flow during temperature changes.

ERRORS TO AVOID IN MAINTAINING A ROOF

The kind of workmanship that goes into a new roof is more important than the materials. Improper application of the best materials means trouble from the beginning.

Here are some common application faults:

- ! Improper cleaning of surfaces to be bonded
- ! Application of asphalt or pitch bonding coats at the wrong temperature.
- ! Failure to fit roofing felt properly against cant strips, and parapet

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walls. The resulting air pockets that develop permit holes to be kicked into the roofing in there areas

- ! Application of untried or unproven products, some of which border on the exotic.
- ! Failure to apply a base sheet over wood decks, or other decks with open vents.
- ! Failure to cover knotholes and cracks with metal
- ! Application of built-up roofs in extremely cold or wet weather
- ! Inadequate application of the final flood-coat of hot bitumen and the placing of slag or gravel after the bitumen is cold. The bitumen must be poured on, not mopped, in the quantity specified, and the aggregate spread while the bitumen is hot.
- ! Application of too much bitumen on the weather surface of smoothsurfaced built-up roofs.

The qualified roofing man knows that asphalt and asphalt saturated felt must be used in repairing and maintaining an asphalt built-up roof . Similarly, coal tar and coal tar saturated felt must be used in maintaining coal tar pitch built-up roofs. Mixing of pitch and asphalt bitumens must be avoided.

DO'S AND DON'TS FOR A SUCCESSFUL ROOF PM PROGRAM

- Do take care of any roof damage immediately
- Do re-roof if your roof felts and insulation are wet or there are serious membrane leaks on 25 per cent of your roof.
- Do establish a program of scheduled inspections and maintenance.
- Do consider Class I roof construction rather than Class II to realize savings due to lower fire hazard and insurance costs.
- Do install roof walkways for use in servicing roof-top equipment.

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Keep damaging traffic where it belongs.

- Don't allow your roof to become a graveyard for old belt guards, hoppers, hoods, and obsolete equipment.
- Don't use your roof as a maintenance area. Heavy tools, grease and oil will only cause trouble!
- Don't let roof sumps become clogged. Pour drainage is disastrous to any roof, sloped or dead level.
- Don't mount equipment directly on top of the roof. Construct a curb to support it.
- ! Don't just poke a new vent pipe through the roof and apply "gook" around it. Flash properly to avoid future trouble.

12. Drawing List

The following table lists the drawings prepared for the CEP. Data includes: NAVFAC number, EFD number, sheet identification, sheet number, and the drawing title. The Table is arranged numerically by sheet number.

Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4255950	355950	G0-1	1 of 197	Cover Sheet
4255951	355951	G0-2	2 of 197	Site Vicinity Map
4255952	355952	C0-1	3 of 197	Civil Legend
4255953	355953	C0-2	4 of 197	Sheet Orientation
4255954	355954	C0-3	5 of 197	CEP Site Plan
4255955	355955	C0-4	6 of 197	Soil Boring Location Plan
4255956	355956	C0-5	7 of 197	Soil Boring Logs
4255957	355957	C0-6	8 of 197	Soil Boring Logs
4255958	355958	C2-1	9 of 197	Surface Demolition Plan
4255959	355959	C2-2	10 of 197	Utility Demolition Plan
4255960	355960	C2-3	11 of 197	Site Layout Plan
4255961	355961	C2-4	12 of 197	Site utility Plan
4255962	355962	C2-5	13 of 197	Site Grading Plan
4255963	355963	C3-1	14 of 197	Driveway Profiles & Horz. Baseline Geo.
4255964	355964	C4-1	15 of 197	Site Details
4255965	355965	C4-2	16 of 197	Concrete Pavement Plan & Details
4255966	355966	C5-1	17 of 197	Storm Drain/Sanitary Sewer Profiles
4255967	355967	C5-2	18 of 197	Steam Profiles
4255968	355968	C6-1	19 of 197	Storm Drain Details
4255969	355969	C6-2	20 of 197	Storm Drain and Misc Details
4255970	355970	C6-3	21 of 197	Sanitary Sewer and Water Details
4255971	355971	C6-4	22 of 197	Sediment and Erosion Control Details

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Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4255972	355972	C6-5	23 of 197	Steam Manhole Details
4255973	355973	C6-6	24 of 197	Steam Manhole Details
4255974	355974	C6-7	25 of 197	Steam Manhole Details
4255975	355975	A0-01	26 of 197	Arch. Symbols and Abbreviations
4255976	355976	A0-02	27 of 197	Demolition Plan
4255977	355977	A1-01	28 of 197	First Floor Plan
4255978	355978	A1-02	29 of 197	Mezz., Interstitial and Third Floor Plan
4255979	355979	A1-03	30 of 197	Roof Plan
4255980	355980	A4-01	31 of 197	Exterior Elevations
4255981	355981	A4-02	32 of 197	Exterior Elevations
4255982	355982	A4-03	33 of 197	Building Section/Elevations
4255983	355983	A5-01	34 of 197	Exterior Closure Sections
4255984	355984	A5-02	35 of 197	Exterior Closure Sections
4255985	355985	A5-03	36 of 197	Exterior Closure Sections
4255986	355986	A5-04	37 of 197	Exterior Details
4255987	355987	A5-05	38 of 197	Exterior Details, Window Types
4255988	355988	A5-06	39 of 197	Exterior Details
4255989	355989	A8-01	40 of 197	Door Schedule, Room Finish Schedule
4255990	355990	A8-02	41 of 197	Enlarge Toilet Plan, Interior Details
4255991	355991	S11-01	42 of 197	Typ. Structural Notes & Details
4255992	355992	S11-02	43 of 197	Typ. Structural Notes & Details
4255993	355993	S12-01	44 of 197	Foundation and Pile Plan
4255994	355994	S12-02	45 of 197	Slab and Column Location Plan
4255995	355995	S12-03	46 of 197	Mezz. Level Framing Plan
4255996	355996	S12-04	47 of 197	Roof Framing Plan

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Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4255997	355997	S12-05	48 of 197	Air Intake Framing & Details
4255998	355998	S12-06	49 of 197	Partial Plans & Details
4255999	355999	S12-07	50 of 197	Structural Sections and Details
4256000	356000	S12-08	51 of 197	Foundation Sections & Details
4256001	356001	S12-09	52 of 197	Foundation Sections & Details
4256002	356002	S12-10	53 of 197	Foundation Sections & Details
4256003	356003	S12-11	54 of 197	Air Intake Framing & Details
4256004	356004	S12-12	55 of 197	Framing Elevations
4256005	356005	S12-13	56 of 197	Framing Elevations
4256006	356006	S12-14	57 of 197	Structural Sections & Details
4256007	356007	S12-15	58 of 197	Structural Sections & Details
4256008	356008	S12-16	59 of 197	Structural Sections & Details
4256009	356009	S12-17	60 of 197	Column Schedule
4256010	356010	S12-18	61 of 197	Structural Sections and Details
4256011	356011	S12-19	62 of 197	Structural Sections and Details
4256012	356012	S12-20	63 of 197	Structural Sections and Details
4256013	356013	S13-01	64 of 197	Cooling Tower FDN/Slab Plan
4256014	356014	S13-02	65 of 197	Cooling Tower Sections and Details
4256015	356015	S14-01	66 of 197	Stack Structural Details
4256016	356016	S15-01	67 of 197	Elevator Twr Fdn, 2nd, 3rd, and Roof Framing Plan
4256017	356017	S15-02	68 of 197	Sections and Details
4256018	356018	M11-01	69 of 197	P & ID Legend Sheet
4256019	356019	M11-02	70 of 197	P & ID Legend Sheet

Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256020	356020	M11-03	71 of 197	Process Flow Diagram
4256021	356021	M11-04	72 of 197	Piping Spec Tables
4256022	356022	M11-05	73 of 197	Piping Spec Tables
4256023	356023	M11-06	74 of 197	Piping Spec Tables
4256024	356024	M11-07	75 of 197	Steam - P&ID
4256025	356025	M11-08	76 of 197	Feedwater - P&ID
4256026	356026	M11-09	77 of 197	Boiler Vents & Blowdown - P&ID
4256027	356027	M11-10	78 of 197	Condensate - P&ID
4256028	356028	M11-11	79 of 197	Treated Water - P&ID
4256029	356029	M11-12	80 of 197	Chemical Feed - P&ID
4256030	356030	M11-14	81 of 197	Cooling Tower Water - P&ID
4256031	356031	M11-16	82 of 197	Flue Gas& Combustion Air - P&ID
4256032	356032	M11-17	83 of 197	Fuel - P&ID
4256033	356033	M11-18	84 of 197	Compressed Air - P&ID
4256034	356034	M11-19	85 of 197	Service & Potable Water - P&ID
4256035	356035	M12-01	86 of 197	Demolition Plan
4256036	356036	M12-02	87 of 197	Demolition Photographs
4256037	356037	M12-03	88 of 197	Demolition Photographs
4256038	356038	M12-04	89 of 197	Demolition Photographs
4256039	356039	M12-05	90 of 197	Demolition Photographs
4256040	356040	M13-01	91 of 197	Piping Plan - Existing Boiler Room
4256041	356041	M13-02	92 of 197	Piping Plan - Chiller Room
4256042	356042	M13-03	93 of 197	Piping Plan - Diesel Generator Room
4256043	356043	M13-04	94 of 197	Piping Plan - Boiler Room Expansion
4256044	356044	M13-05	95 of 197	Piping Plan - Waste Handling Area

Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256045	356045	M13-06	96 of 197	Piping Plan - Mezzanine
4256046	356046	M13-07	97 of 197	Roof Plan
4256047	356047	M13-08	98 of 197	Piping Plan - Cooling Tower
4256048	356048	M13-09	99 of 197	Piping Plan - Fuel Oil Storage
4256049	356049	M13-10	100 of 197	HVAC Plans and Details
4256050	356050	M13-11	101 of 197	HVAC Schedules
4256051	356051	M14-01	102 of 197	Mechanical Sections
4256052	356052	M14-02	103 of 197	Mechanical Sections
4256053	356053	M14-03	104 of 197	Mechanical Sections
4256054	356054	M14-04	105 of 197	Mechanical Sections
4256055	356055	M14-05	106 of 197	Mechanical Sections and Details
4256056	356056	M14-06	107 of 197	Instrument Installation Details
4256057	356057	M14-07	108 of 197	Instrument Installation Details
4256058	356058	M14-08	109 of 197	Instrument Installation Details
4256059	356059	M14-09	110 of 197	Instrument Installation Details
4256060	356060	M14-10	111 of 197	Instrument Installation Details
4256061	356061	M14-11	112 of 197	Breeching Details
4256062	356062	M14-12	113 of 197	Mechanical Details
4256063	356063	M14-13	114 of 197	Potable Water - P&ID
4256064	356064	M14-14	115 of 197	Domestic Hot Water System Piping Plan
4256065	356065	M14-15	116 of 197	Mechanical Details
4256066	356066	M15-01	117 of 197	Plumbing
4256067	356067	M15-02	118 of 197	Plumbing - Schematics
4256068	356068	M15-03	119 of 197	Service Water and Air
4256069	356069	M15-04	120 of 197	HVAC Plan
4256070	356070	M15-05	121 of 197	Schedules
4256071	356071	M15-06	122 of 197	Schedules
4256072	356072	M15-07	123 of 197	Fire Protection
4256073	356073	M15-08	124 of 197	Fire Protection

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Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256074	356074	M15-09	125 of 197	Breeching Plan
4256075	356075	M16-01	126 of 197	Control Diagrams
4256076	356076	M16-02	127 of 197	Control Diagrams
4256077	356077	M16-03	128 of 197	Control Schematics
4256078	356078	M16-04	129 of 197	Control Schematics
4256079	356079	M16-05	130 of 197	Control Schematics
4256080	356080	ED-4	131 of 197	Electrical Demolit. - Site Plan
4256081	356081	ES-4	132 of 197	Electrical - Site Plan
4256082	356082	E2-1	133 of 197	Stack Lighting
4256083	356083	E2-3	134 of 197	Schedules & Ductbank Details
4256084	356084	E11-01	135 of 197	Electrical Symbol Legend
4256085	356085	E11-02	136 of 197	Electrical Symbol Legend
4256086	356086	E11-03	137 of 197	Electrical Symbol Legend
4256087	356087	E12-01	138 of 197	Demolition Plan
4256088	356088	E13-01	139 of 197	Electrical One-Line Diagram 4160V
4256089	356089	E13-02	140 of 197	Electrical One-Line Diagram 4160V
4256090	356090	E13-03	141 of 197	Electrical One-Line Diagram 4160V
4256091	356091	E13-04	142 of 197	Electrical One-Line Diagram 4160V
4256092	356092	E13-05	143 of 197	Electrical One-Line Diagram 4160V
4256093	356093	E13-06	144 of 197	Electrical One-Line Diagram 480V
4256094	356094	E13-07	145 of 197	Electrical One-Line Diagram 480V
4256095	356095	E13-08	146 of 197	Electrical One-Line Diagram 480V
4256096	356096	E13-09	147 of 197	Electrical One-Line Diagram 480V

Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256097	356097	E13-10	148 of 197	Electrical One-Line Diagram 480V
4256098	356098	E13-11	149 of 197	Electrical Diagram 480V SWBD1
4256099	356099	E13-12	150 of 197	Electrical Diagram 120/208V SWBD2
4256100	356100	E13-13	151 of 197	Electrical Diagram 125VDC & UPS
4256101	356101	E13-14	152 of 197	Electrical Tripping Schedule
4256102	356102	E14-01	153 of 197	Grounding and Embedded Conduits
4256103	356103	E14-02	154 of 197	Grounding and Embedded Conduits
4256104	356104	E14-03	155 of 197	Lighting Protection Plan
4256105	356105	E14-04	156 of 197	Lighting Protection Plan
4256106	356106	E14-05	157 of 197	Cable Tray Plan
4256107	356107	E14-06	158 of 197	Cable Tray Elevations
4256108	356108	E15-01	159 of 197	Lighting & 120V Services Plan
4256109	356109	E15-02	160 of 197	Lighting & 120V Services Plan
4256110	356110	E15-03	161 of 197	Lighting & 120V Services Plan
4256111	356111	E15-04	162 of 197	Elevator Tower - Lighting and Power
4256112	356112	E15-05	163 of 197	Lighting Fixture Schedule
4256113	356113	E15-06	164 of 197	Lighting Fixture Details
4256114	356114	E15-07	165 of 197	Lighting Fixture Details
4256115	356115	E15-08	166 of 197	Lighting Fixture Mounting Details
4256116	356116	E15-09	167 of 197	Lighting Fixture Mounting Details
4256117	356117	E16-01	168 of 197	Cable and Raceway Plan
4256118	356118	E16-02	169 of 197	Cable and Raceway Plan

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Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256119	356119	E16-03	170 of 197	Cable and Raceway Plan
4256120	356120	E16-04	171 of 197	Cable and Raceway Plan
4256121	356121	E16-05	172 of 197	Cable and Raceway Plan
4256122	356122	E16-06	173 of 197	Cable and Raceway Plan
4256123	356123	E16-07	174 of 197	Cable and Raceway Plan
4256124	356124	E16-08	175 of 197	Cable and Raceway Plan
4256125	356125	E16-09	176 of 197	Panelboard Schedules
4256126	356126	E16-10	177 of 197	Panelboard Schedules
4256127	356127	E16-11	178 of 197	Cable Tabulation
4256128	356128	E16-12	179 of 197	Cable Tabulation
4256129	356129	E16-13	180 of 197	Cable Tabulation
4256130	356130	E16-14	181 of 197	Cable Tabulation
4256131	356131	E16-15	182 of 197	Cable Tabulation
4256132	356132	E16-16	183 of 197	Cable Tabulation
4256133	356133	E16-17	184 of 197	Cable Tabulation
4256134	356134	E16-18	185 of 197	Cable Tabulation
4256135	356135	E16-19	186 of 197	Cable Tabulation
4256136	356136	E16-20	187 of 197	Cable Tabulation
4256137	356137	E17-01	188 of 197	Electrical Details
4256138	356138	E17-02	189 of 197	Electrical Details
4256139	356139	E18-01	190 of 197	Comm. & Fire Detect. Riser Diagrams
4256140	356140	E18-02	191 of 197	Communicat. & Fire Detection
4256141	356141	E18-03	192 of 197	Communicat. & Fire Detection
4256142	356142	E19-01	193 of 197	Main Control Panel Elevation
4256143	356143	E19-02	194 of 197	Main Control Panel Schedules
4256144	356144	E19-03	195 of 197	Main Control Panel Schedules
4256145	356145	E19-04	196 of 197	Generator Control Panel

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**** PREFINAL SUBMITTAL ****

Table I-11: CEP Drawing List				
NAVFAC #	EFD #	Sheet ID	Sheet #	Drawing Title
4256146	356146	E19-05	197 of 197	Generator Control Panel Schedule
4256147	356147	U-E1-1	of	Electrical One-Line Diagram

13. OMSI Diskettes

Following this page is a hanging diskette holder which contains 3.5" HD diskettes for Parts I, II, and III of the OMSI for the CEP:

Disk #	Files	Description	Filename	Filetype
1	Part I Database	Includes the data from Part I sections 2,3,4,5,6,7 in a centralized database	cp-i-db.dbf	ASCII
2	Equipment Inventory	Includes the data from Part I section 8	cp-i-ms.dbf	Mainsaver
3	Part I Text	Includes all word processed text from Part I	cp-i-tx.dbf	Word 6.0
	CEP Site Plan	Color-coded drawing	cp-i-sp.dwg	AutoCAD V12
	CEP Utility Cutoff Drawing	Color-coded drawing	cp-i-ut.dwg	AutoCAD V12
4	Part II Text	Includes all word processed text from Part II	cp-ii-tx.dwg	Word 6.0
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Etc.

14. Basis of Design

This section is simply a copy of the Basis of Design developed by the A/E responsible for the design of the mechanical and electrical systems in the CEP.

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